

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : 10/647,801  
Applicant : Liotta *et al.*  
Filed : August 25, 2003  
TC/AU : 1623  
Examiner : Maier, Leigh C

Docket No. : 18085.105233 CON1 (EMU 2010)  
Customer No. : 20786

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

August 3, 2005


**ADDITIONAL COPIES OF REFERENCES**

Sir:

In an Official Action mailed December 2, 2004, the Examiner requested additional copies of documents marked with an asterisk on the Form 1449 enclosed with the action, a copy of which is attached. In response to this request, Applicants submit additional copies of these documents except references CI and CO herewith.

Applicants do not believe any additional fees are due with this response, however, the Commissioner for Patents is authorized to charge any additional fees which may be required to Deposit Account No. 11-0980.

Respectfully submitted,

  
\_\_\_\_\_  
Susanne Hollinger  
Reg. No. 51,811

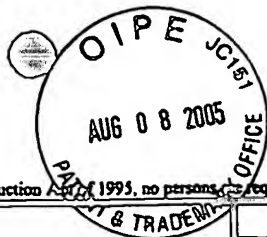
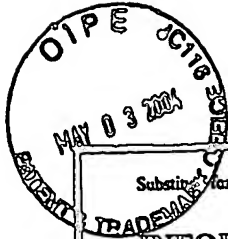
King & Spalding LLP  
191 Peachtree Street  
Atlanta, Georgia 30303  
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CERTIFICATE OF MAILING (37 CFR 1.8a)

I hereby certify that this Response to Office Action, along with any paper referred to as being attached or enclosed, is being deposited with the United States Postal Service on the date shown below with sufficient postage as first-class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Susanne Hollinger



PTO/SB/08A (03-03)

Approved for use through 07/31/2005. OMB 0651-0031

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 4

## Complete if Known

Application Number	10/647,801
Filing Date	August 25, 2003
First Named Inventor	Liotta et al.
Group Art Unit	1621
Examiner Name	Unassigned
Attorney Docket Number	18085.105233 EMU 2010 CON

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## U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
LCM	AA	5,103,002	A	Wieland	04-07-1992	
LCM	AB	5,110,987	A	Liotta et al.	05-05-1992	
LCM	AC	5,122,450	A	Feizi et al.	06-16-1992	
LCM	AD	5,190,876	A	Merrill	03-02-1993	
LCM	AE	5,232,837	A	Merrill et al.	08-03-1993	
LCM	AF	5,430,169	A	Boumendjel et al.	06-04-1995	
LCM	AG	5,440,012	A	Takei et al.	08-08-1995	
LCM	AH	5,459,057	A	Merrill et al.	10-07-1995	
LCM	AI	5,463,092	A	Kumar Raj et al.	10-31-1995	
LCM	AJ	5,488,166	A	Hudlicky	01-30-1996	
LCM	AK	5,518,879	A	Merrill et al.	05-21-1996	
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LCM	AM	5,610,040	A	Smeets et al.	03-11-1997	
LCM	AN	5,616,577	A	Nambi et al.	04-01-1997	
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LCM	AQ	5,780,441	A	Higa et al.	07-14-1998	
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LCM	AS	5,916,911	A	Shayman et al.	06-29-1999	
LCM	AT	6,010,733	A	Takemoto et al.	01-04-2000	
LCM	AU	6,043,218	A	Dix et al.	03-28-2000	
LCM	AV	6,063,796	A	Yang et al.	05-16-2000	
LCM	AW	6,127,578	A	Merrill et al.	10-03-2000	
LCM	AX	6,610,835	B1	Liotta et al.	08-26-2003	

## FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T o
		Office <sup>2</sup>	Number	Kind Code <sup>3</sup> (if known)				
LCM	AY	JP	1-93562		--	04-12-1989		
LCM	AZ	EP	0,556,962	A1	Orosz (Rich. Ged. Veg.Gy. RT)	08-25-1993		
LCM	AAA	EP	0,560,267	A1	Beaulieu (Bio-Mega; Boehringer)	09-15-1993		

Examiner  
Signature

Leigh C. Maier

Date  
Considered

11-19-04

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

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Submitted for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/647,801
				Filing Date	August 25, 2003
				First Named Inventor	Liotta et al.
				Group Art Unit	1621
				Examiner Name	Unassigned
Sheet 2 of 4				Attorney Docket Number	18085.105233 EMU 2010 CON

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FOREIGN PATENT DOCUMENTS								
Examiner Initials °	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6
		Office ²	Number	Kind Code³ (if known)				
LCM	BA	EP	0,666,268	A1	Akimoto <i>et al.</i>	08-09-1995		
LCM	BB	EP	0,675,112	A1	Hunt (Bristol-Myers Squibb)	10-04-1995		
LCM	BC	EP	0,821,068		Rohm & Haas	01-28-1998		
LCM	BD	WO	87/02777	A1	Feizi <i>et al.</i> (Res. Corp. Ltd.)	05-07-1987		
LCM	BE	WO	95/29189	A1	Al-Obeidi <i>et al.</i> (Selectide Corp)	11-02-1995		
LCM	BF	WO	97/26891		Beiersdorf	07-31-1997		
LCM	BG	WO	97/47194	A1	Babu <i>et al.</i> (Biocryst Pharm.)	12-18-1997		
LCM	BH	WO	97/10817		Univ. Michigan	03-27-1997		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				T
Examiner Initials	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		6
*	BI	BENNUN <i>et al.</i> , <i>Infect. &amp; Immun.</i> , 57:969-974 (1989).		
*	BJ	BELL, R., <i>et al.</i> <i>Cold Spr. Harbor Sym. Quant. Biol.</i> 53:103 (1988).		
LCM	BK	BUEHRER, B.M., and BELL, R.M., "Inhibition of sphingosine kinase <i>in vitro</i> <i>J. Biol. Chem.</i> 267(5):3154-3159 (February 15, 1992).		
*	BL	BUEHRER and BELL, <i>Adv. Lipid Res.</i> 6:59-67 (1993).		
LCM	BM	CARTER, S.R., <i>et al.</i> , "Enzymatic sulfation of mucus glycoprotein in gastric mucosa," <i>J. Biol. Chem.</i> , 263(24):11977-11964 (August 25, 1988).		
LCM	BN	CROSSMAN, M.W., and HIRSCHBERG, C.B., "Biosynthesis of phytosphingosine by the rat," <i>J. Biol. Chem.</i> , 252(16):5815-5819 (August 25, 1977).		
LCM	BO	DESAI, K., <i>et al.</i> , "Fumonisin and fumonisin analogs as inhibitors of ceramide synthase and inducers of apoptosis," <i>Biochem. Biophys. Acta</i> , 1585(2-3):188-192 (December 30, 2002).		
*	BP	FARKAS-HIMSLEY <i>et al.</i> , <i>Proc. Natl. Acad. Sci. (USA)</i> 92:6996-7000 (1995).		
*	BQ	HAKOMORI,, <i>J. Biol. Chem.</i> 265:18713-18716 (1990).		
*	BR	HANNUN <i>et al.</i> , <i>J. Bio. Chem.</i> 261:12604-12609 (1986).		
*	BS	HANNUN, <i>J. Biol. Chem.</i> 269:3125-3128 (1994).		
*	BT	HANNUN and OBEID, <i>Trends Biochem. Sci.</i> 20:73-77 (1995).		
*	BU	<i>J. Urol.</i> , 155(5):653A, Abst. 1367 (1996).		
*	BV	JACEWICZ <i>et al.</i> , <i>J. Clin. Invest.</i> 96:1328-1335 (1995).		
*	BW	JEFFERSON, A. and SCHULMAN, H., <i>J. Biol. Chem.</i> 263:15241 (1988).		

Examiner Signature	Lugh C. Main	Date Considered	11-19-04
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				Group Art Unit	1621
				Examiner Name	Unassigned
Sheet	3	of	4	Attorney Docket Number	18085.105233 EMU 2010 CON

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
*	CA	KARLSSON, K. A., <i>Chem. Phys. Lipids</i> , 5:6-43 (1970).	
*	CB	KAWAI, G., <i>et al.</i> , "Stimulatory effect of certain plant sphingolipids on fruiting of <i>Schizophyllum commune</i> ," <i>J. of Biol. Chem.</i> , 261(2):779-784 (1986).	
LCM	CC	KENNEDY, K.J., <i>et al.</i> , "Asymmetric synthesis of non-natural homologues of lysine," <i>Bioorg. Med. Chem. Lett.</i> , 7(14):1937-1940 (1997).	
*	CD	KEUSCH <i>et al.</i> , <i>Infect. &amp; Immun.</i> 63: 1138-1141 (1995).	
*	CE	KOLESNICK, <i>Cell</i> 77:325-328 (1994).	
*	CF	MERRILL <i>et al.</i> , <i>Fungal Lipids</i> (R. Prasad and M. Ghanoum, eds.), CRC Press, Boca Raton, FL (1995).	
*	CG	MERRILL and WANG, <i>Methods Enzymol.</i> , 209:427-437 (1992).	
*	CH	MERRILL <i>et al.</i> , <i>J. Biol. Chem.</i> 261:3764-3769 (1986).	
*	CI	MERRILL & SWEELEY, "Sphingolipids: metabolism and cell signalling," <i>New Comprehensive Biochemistry: Biochemistry of Lipids, Lipoproteins, and Membranes</i> , (Vance, D.E. & Vance, J.E., eds.), pp. 309-338, Elsevier Science, Amsterdam (1996).	
*	CJ	MINN, A. J., <i>et al.</i> , <i>Blood</i> 86: 1903-1910 (1995).	
*	CK	MINN, A. J., <i>et al.</i> , <i>Nature</i> , 385: 353-357 (1997).	
*	CL	MORRISON, <i>Biochim. Biophys. Acta.</i> , 176:537-546 (1969).	
*	CM	MUCHMORE, S. W., <i>et al.</i> , <i>Nature</i> , 381: 335-341 (1996).	
*	CN	NILSSON, A., <i>Biochim. Biophys. Acta.</i> 164:575-584 (1968).	
*	CO	Patent Abstracts of Japan, vol. 095, no. 002, (March 31, 1995).	
*	CP	PITTET, D., <i>et al.</i> , <i>J. Biol. Chem.</i> 262:10072 (1987).	
*	CQ	ROBSON <i>et al.</i> , <i>J. Lipid Res.</i> 35:2060-2068 (1994).	
*	CR	SCHMELZ <i>et al.</i> , <i>Journal of Nutrition.</i> 124:702-712	
LCM	CS	SCHMITZ, B., <i>et al.</i> , "Determination of structural elements of the L2/HNK-1 carbohydrate epitope required for its function," <i>Glycoconjugate J.</i> , 11(4):345-352 (1994).	
LCM	CT	SUZUKI, N., <i>et al.</i> , "Farnesyltransferase inhibitors induce Cytochrome C release...", <i>Proc. Natl. Acad. Sci. USA</i> , 95:15356-15361 (December 1998).	
*	CU	THOMPSON, <i>et al.</i> , <i>Biochem. Pharmacol.</i> 56: 591-597, 1998.	
LCM	CV	WADDELL, S.T., <i>et al.</i> , "Chimeric azalides with functionalized western portions," <i>Heterocycles</i> , 43(11):2325 (1996).	
*	CW	WELLS, G. B. and LESTER, R.L., <i>J. Biol. Chem.</i> , 258:10200-10203 (1983).	
*	CX	WILSON <i>et al.</i> , <i>J. Biol. Chem.</i> 261:12616-12623 (1986).	
*	CY	WINICOV, I. and GERSHENGORN, M., <i>J. Biol. Chem.</i> 263:12179 (1988).	

Examiner Signature	Leigh C. Mair	Date Considered	11-19-04
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LCM	DA	WIPF, P., and HENNINGER, T.C., "Solid-phase synthesis of peptide mimetics with (E)-alkene amide bond replacements derived from alkenylaziridines," <i>J. Org. Chem.</i> , 62(6):1586-1587 (1997).	
	DB	WU <i>et al.</i> , <i>J. Biol. Chem.</i> 268:13830-13837 (1993).	

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